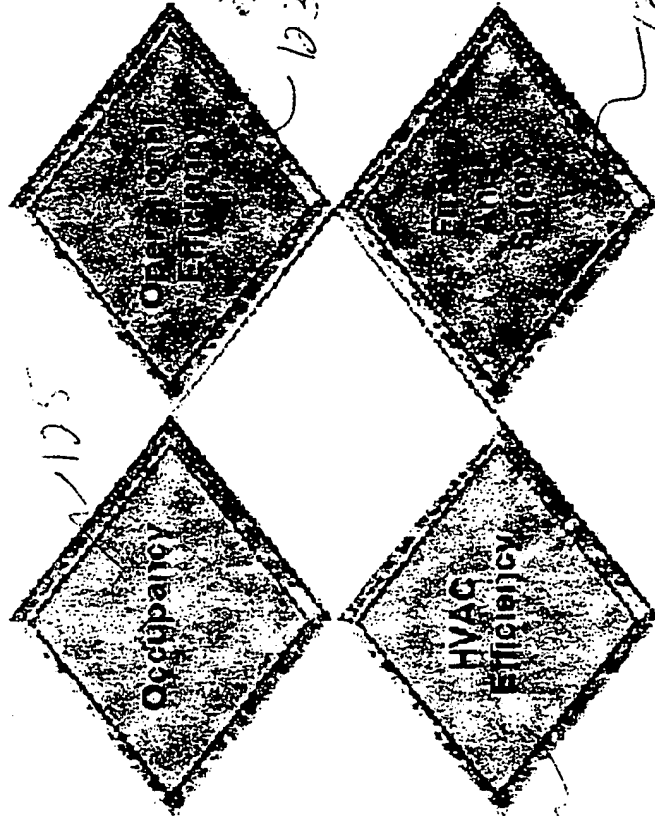


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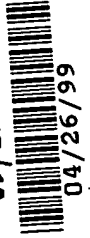
Energy
Procurement
Network



Facilities Network



jc594 U.S. PTO
09/299124



04/26/99

Alarm Response Network

The Limited

Retail Store # 0

Location: 0

Power Network

Kw Demand	46	Kw	4362	RESPOND
Demand Interval	12			RESPOND
Demand Setpoint	64	Kw		RESPOND

ALARM

HVAC Network

Outdoor Temp	72	Humid	30%	RESPOND
Return Air Temp	68	Humid	30%	RESPOND
Head Pressure	71			RESPOND
Discharge Air Temp	68			RESPOND
Suction Pressure	psi			RESPOND
Fan Run	ON	Motor	ON	RESPOND
Space Temp	72			RESPOND
Power To Unit	ON			RESPOND

ALARM

Real Time Electric Consumption and Energy Cost Analysis For Distribution Center #0



Price per Kwh = 0

Total Consumption Today

\$44.55 for 469 Kw

Price Off Peak Kwh=.07 cents...\$275

Price On Peak Kwh=.09 cents...\$575

Demand Penalty=\$100.00

**Pennsylvania
Power And Light
\$.089 per Kwh**

Detroit Edison
\$.095 per Kw/h

**Wisconsin
Power And Light
\$.099 per Kwh**

181

Fig 5

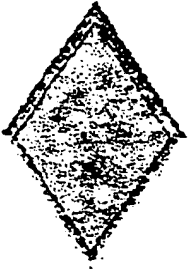
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<http://www.burcon.com>

Provider Code	Providers on FJL BASIS
AE	Anchor Energy Company
BCE	Bell Canada Electric Company
DPL	Dominion Power and Light Company
GEUP	GE Energy
PEOC	PEPCO Energy Company
PPL	Pennsylvania Power and Light Company
PEP	Pennsylvania Electric Power Company
PHI	PHILADELPHIA
PEG	PELCO Service Electric and Gas Company

1091

Figure 6



Occupancy Report

RETURN

OUTSIDE INFORMATION

Of People Who Passed The Front Door/Gate

236

Approximate Time That These People Walked By

8:00 AM to 10:00 AM 24
10:30 AM to 1:00 PM 19
1:30 PM to 3:30 PM 56

3:30 PM to 5:00 PM 144
5:00 PM to 7:30 PM 26
7:30 PM to 10:00 PM 179

INSIDE INFORMATION

Of People Who Entered The Front Door/Gate

Section A 21 Section D 11
Section B 34 Section E 22
Section C 27 Section F 37

Approximate Time That These People Entered

8:00 AM to 10:00 AM 10
10:30 AM to 1:00 PM 24
1:30 PM to 3:30 PM 16

3:30 PM to 5:00 PM 29
5:00 PM to 7:30 PM 13
7:30 PM to 10:00 PM 88

Figure 7

11211

Freehold Central Office

Total Facility Real Time Consumption

6138 Kw

Active Kw	354	Daily Kwh	1963
Load Interval	462	Yesterday Kwh	3804
Daily Peak Kw	592	Monthly Kwh	17635
Monthly Peak Kw	662	Yearly Kwh	380387

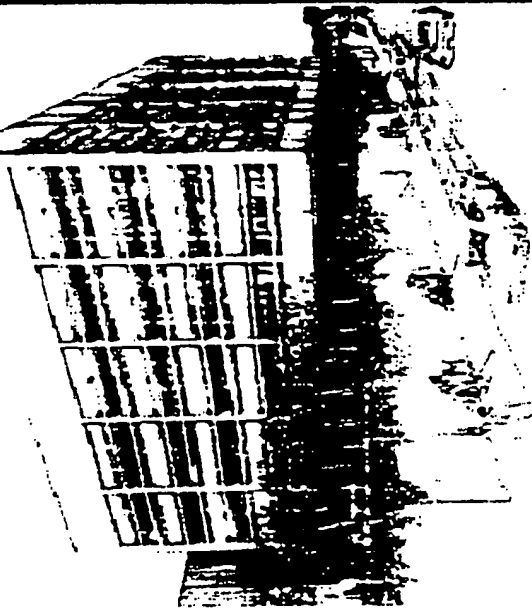
Other Utilities Real Time Consumption

Gas Consumption	914	ccf
Steam Consumption	610	%mlb
Steam Demand	457	MLB
Oil Consumption	108	Gal.
Daily Water Consumption	9607	Gal.

Outdoor Temperature	78	°
Indoor Temperature	72	°
Outdoor Humidity	60	%

30ANET

Freehold Central Office Floor Selector



- Floor 6
- Floor 5
- Floor 4
- Floor 3
- Floor 2
- Floor 1
- Sublevel 1
- Sublevel 2
- Basement

Floor Plan Selector

RETURN

Figure B

Freehold Central Office

Total Facility Real Time Consumption

6136 Kw

Active Kw	352	Daily Kwh	1961
Last Interval	460	Yesterday Kwh	9802
Daily Peak Kw	590	Monthly Kwh	17633
Monthly Peak	640	Yearly Kwh	580385

Other Utilities Real Time Consumption

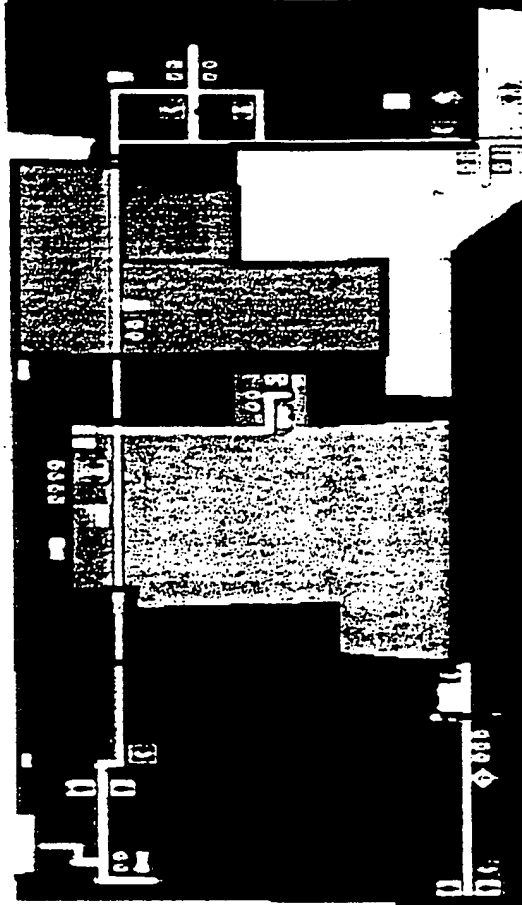
Gas Consumption	317	ccf
Steam Consumption	508	%mlb
Steam Demand	455	MLB
Oil Consumption	106	Gal.
Daily Water Consumption	9685	Gal.

Outdoor Temperature	76	°
Indoor Temperature	72	°
Outdoor Humidity	60	%

ONNET

Freehold Central Office

Hall Selector Fourth Floor



Click Here To Select Florence Hall

Figure 9

Freehold Central Office

Total Facility Real Time Consumption
6139 Kw

Active Kw	355	Daily Kwh	4964
Last Interval	463	Yesterday Kwh	9805
Daily Peak Kw	593	Monthly Kwh	17636
Monthly Peak	643	Yearly Kwh	580388

Other Utilities Real Time Consumption

Gas Consumption	915	ccf
Steam Consumption	611	%mlb
Steam Demand	458	MLB
Oil Consumption	109	Gal.
Daily Water Consumption	9688	Gal.

Outdoor Temperature	79	°
Indoor Temperature	72	°
Outdoor Humidity	60	%

ONNET

Freehold Central

Room Selector For Lothar Hall Fourth Floor

Stairs

Elevators		Elevators		Elevators		Elevators	
Patient Room # 401	Patient Room # 403	Patient Room # 405	Patient Room # 407	Patient Room # 409	Patient Room # 411	Patient Room # 413	Patient Room # 415
Side A		Side B		Side A		Side B	
Patient Room # 402	Patient Room # 404	Patient Room # 406	Patient Room # 408	Patient Room # 410	Patient Room # 412	Patient Room # 414	Patient Room # 416
Patient Room # 413	Patient Room # 415	Patient Room # 417	Patient Room # 419	Patient Room # 421	Patient Room # 423	Patient Room # 425	Patient Room # 427
Side A		Side B		Side A		Side B	
Patient Room # 414	Patient Room # 416	Patient Room # 418	Patient Room # 420	Patient Room # 422	Patient Room # 424	Patient Room # 426	Patient Room # 428

RETURN

Figure 10

Freehold Central Office

Total Facility Real Time Consumption

6138 Kw

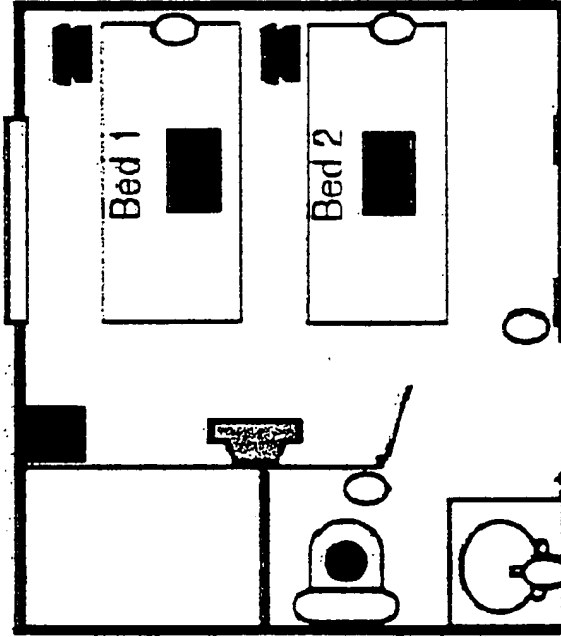
Active Kw	354	Daily Kwh	1963
Last Interval	462	Yesterday Kwh	9804
Daily Peak Kw	592	Monthly Kwh	17635
Monthly Peak	642	Yearly Kwh	580387

Other Utilities Real Time Consumption

Gas Consumption	914	ccf
Steam Consumption	610	%mlb
Steam Demand	457	MLB
Oil Consumption	108	Gal.
Daily Water Consumption	9687	Gal.
Outdoor Temperature	78	°
Indoor Temperature	72	°
Outdoor Humidity	60	%

SONNET

Room 401



Lighting
Heating & AC
Phones
TV
Vents

RETURN

251

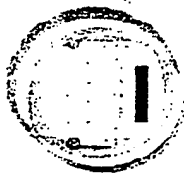
Actual Room SERVICES For

Figure 11

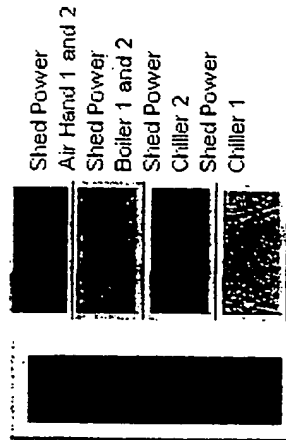
Electric Adaptive Demand Center

003210

003210



HVAC Load #1



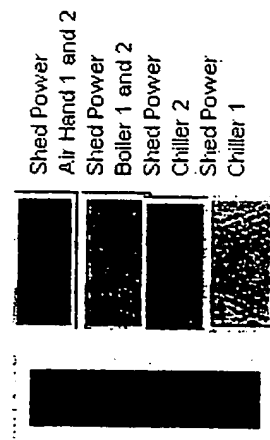
Shed Power
Air Hand 1 and 2
Shed Power
Boiler 1 and 2
Shed Power
Chiller 2
Shed Power
Chiller 1

HVAC Load #2



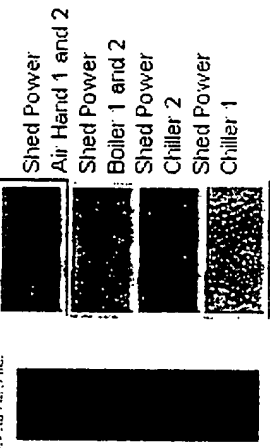
Shed Power
Air Hand 1 and 2
Shed Power
Boiler 1 and 2
Shed Power
Chiller 2
Shed Power
Chiller 1

HVAC Load #3



Shed Power
Air Hand 1 and 2
Shed Power
Boiler 1 and 2
Shed Power
Chiller 2
Shed Power
Chiller 1

HVAC Load #4

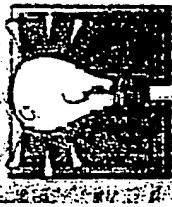


Shed Power
Air Hand 1 and 2
Shed Power
Boiler 1 and 2
Shed Power
Chiller 2
Shed Power
Chiller 1

271
Figure 12

HVAC Efficiency

RETURN



LIGHTING

Present
Load

??KW

??KW

Demand



AHU



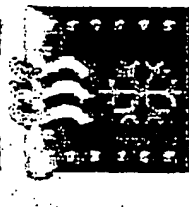
BACK UP GENERATION



DOMESTIC HEATING



BUILDING HEAT



CHILLER

??Therms/Hour

??KW/Ton

??KW/Ton

??Therms/Hour

??KW/Gal

??Gal/Ton



??KW



??KW



??Gal



??MBS

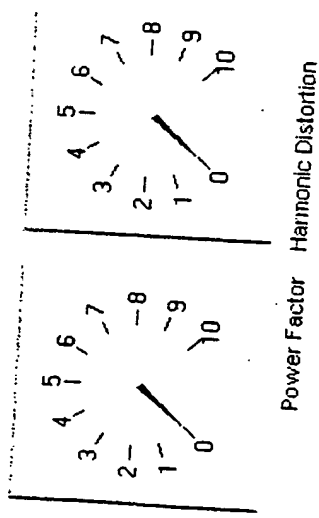
Figure 13

Power Quality Control For 0

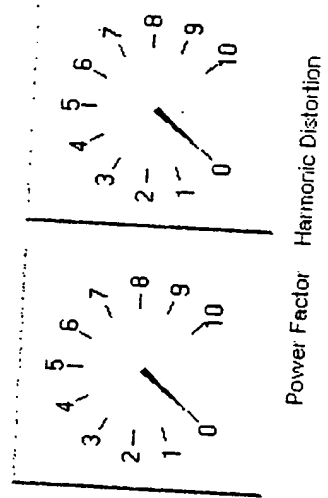
WU 3111



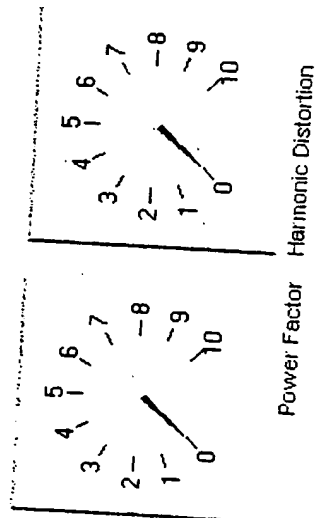
HVAC Load #1



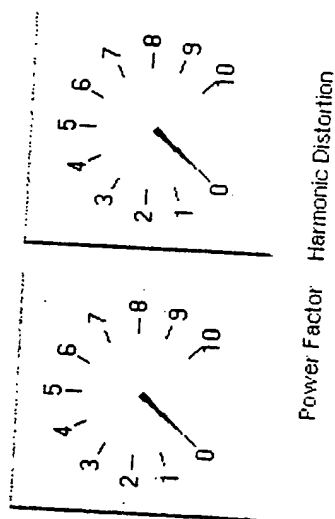
HVAC Load #2



HVAC Load #3



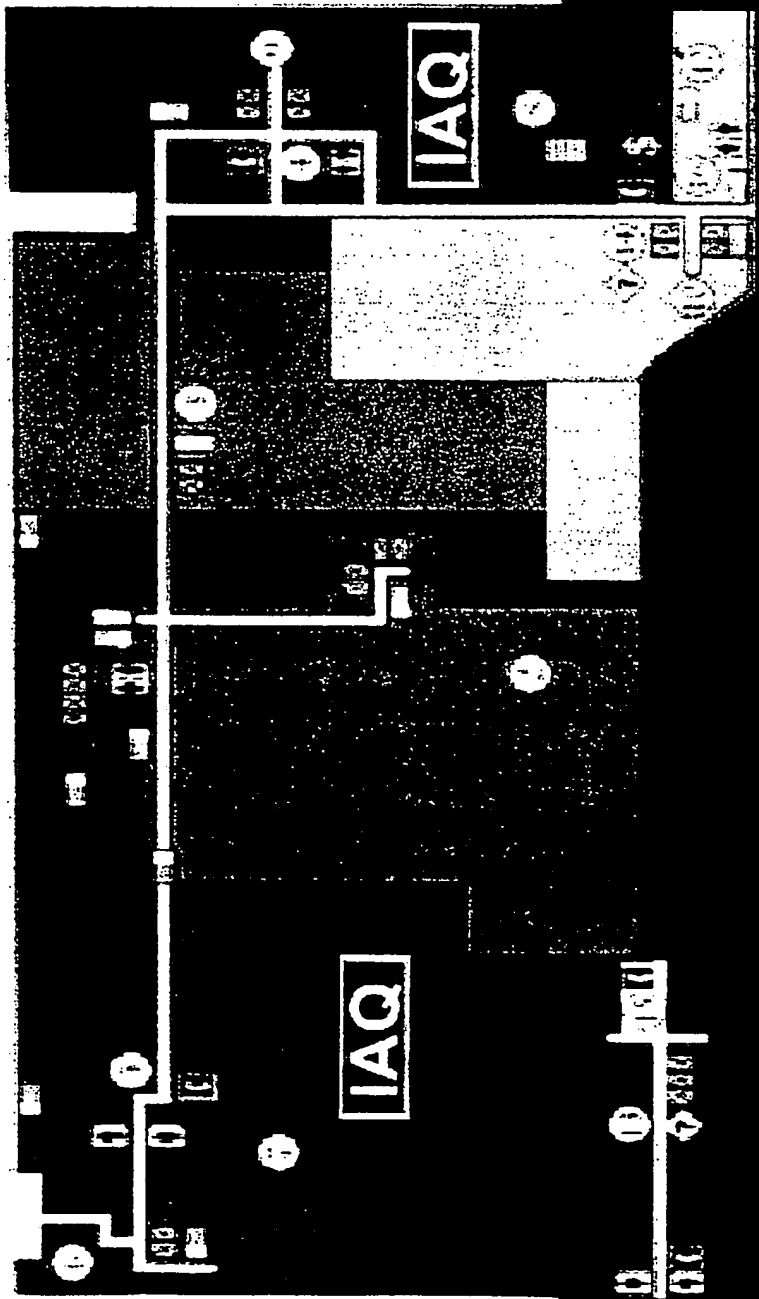
HVAC Load #4



311

Figure 14

Indoor Air Quality Room Selector For 0, Fourth Floor



Please Select A Room

RETURN

10321

Figure 15



Indoor Air Quality

RETURN

Acceptable

Level Detected

SO ₂ - Sulfur Dioxide =	0.2 ppm	0.14 ppm
H ₂ S	0 ppm	0.14 ppm
CO - Carbon Dioxide	1500 ppm	1000 ppm
CO - Carbon Monoxide	1 ppm	2.5 ppm
NO - Nitrous Oxide	37.2 ppm	0.4 p pm
NO ₂ - Nitrogen Dioxide	0.7 ppm	0.3 ppm
VOCs - Volatile Organic Compounds	High	Medium
RH - Relative Humidity	44% - 58.4%	
Temp -		

Figure 16

331

00340-426000



LOCATION
OF
MULTISITE
LOCATION

~361

Figure ~~10~~ 17

PWR-118A

Bell Atlantic North East Energy Net

Click Mouse To View New
York Map

LOCATION
MAPS

~ 371

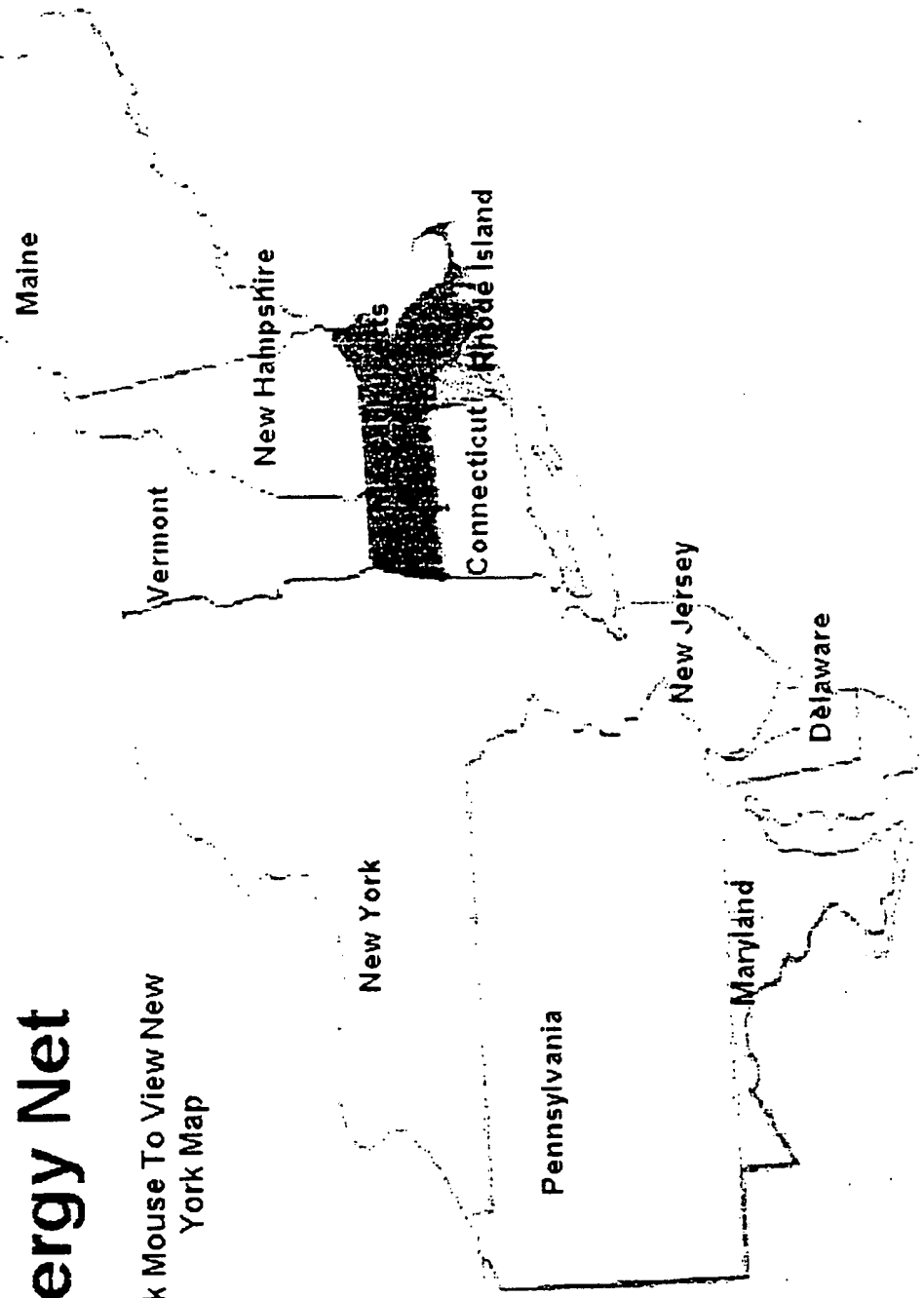
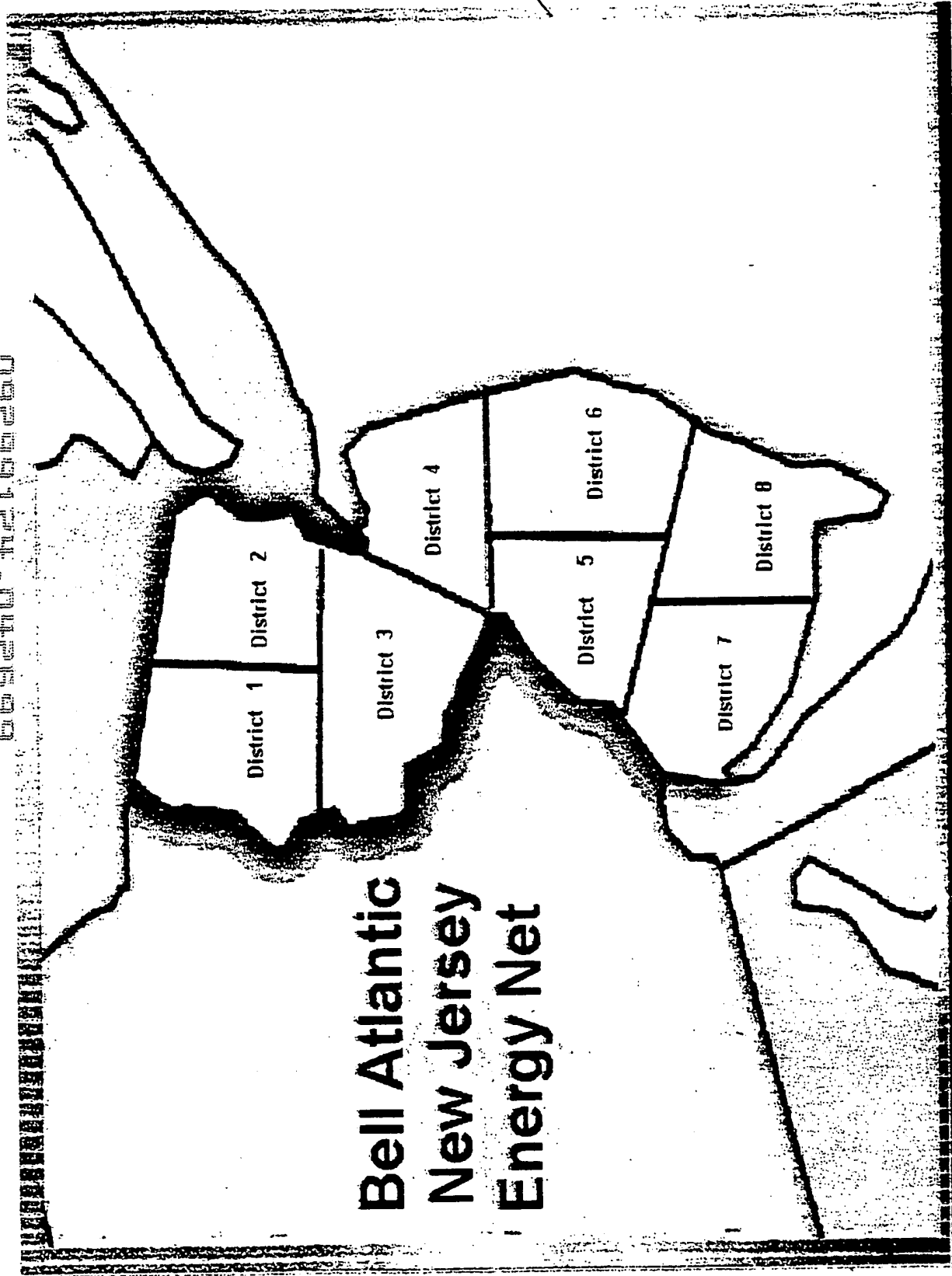


Figure 18

SECTION THREE

Bell Atlantic New Jersey Energy Net



LOCATION
MAP.

2381

Figure 19

DNB-118A

NEW JERSEY ENERGY

New Jersey Energy Net District 4

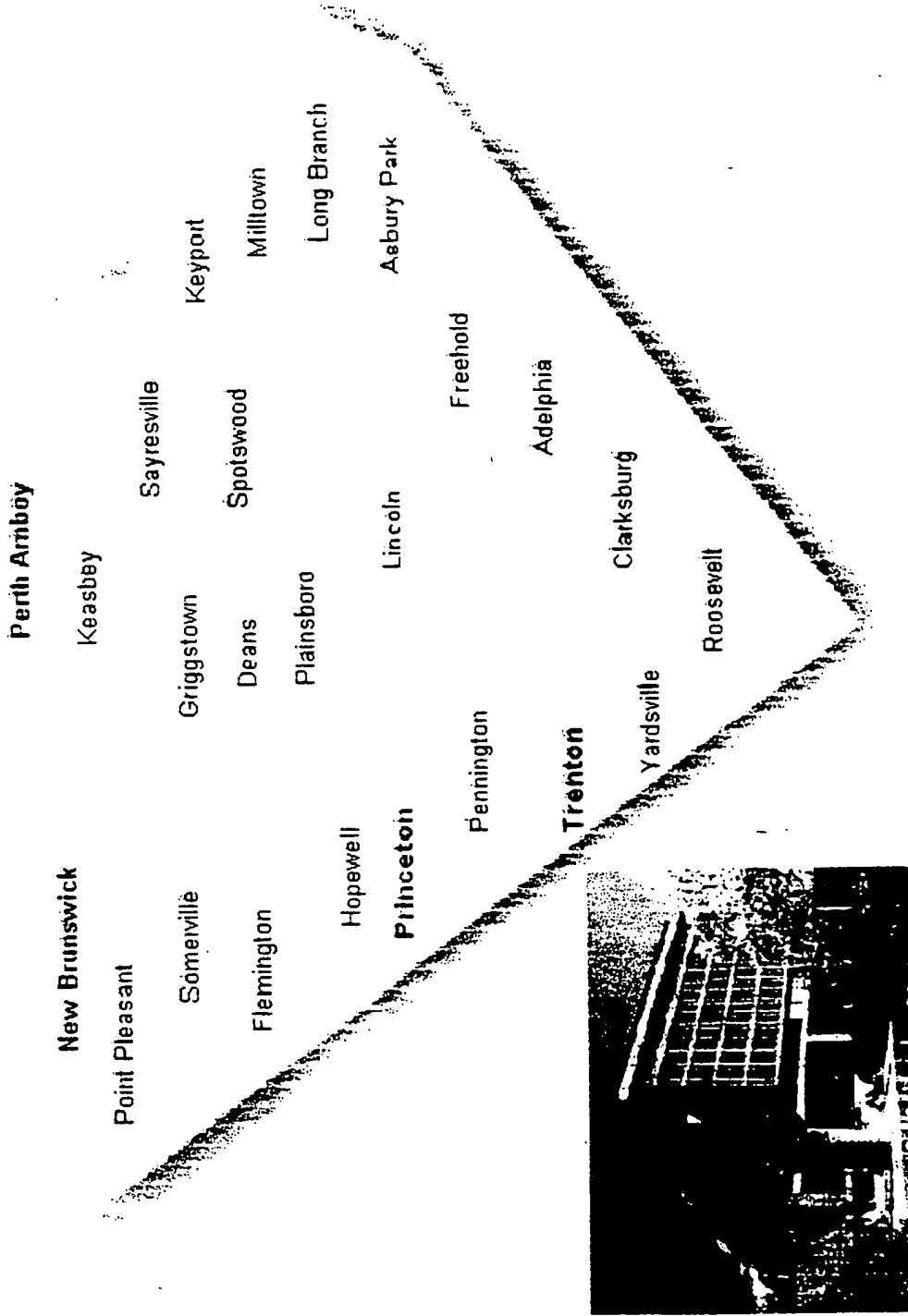


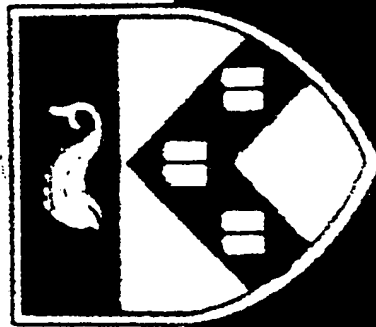
Figure 20

LOCATION
MAP
BUILDING
SITE

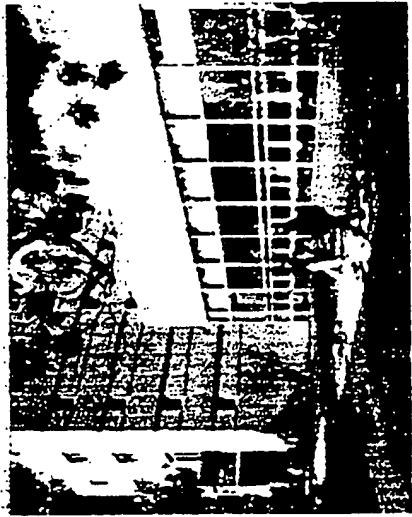
~351

Click Here To Select

Founders Hall



Saint Patrick's Health Complex



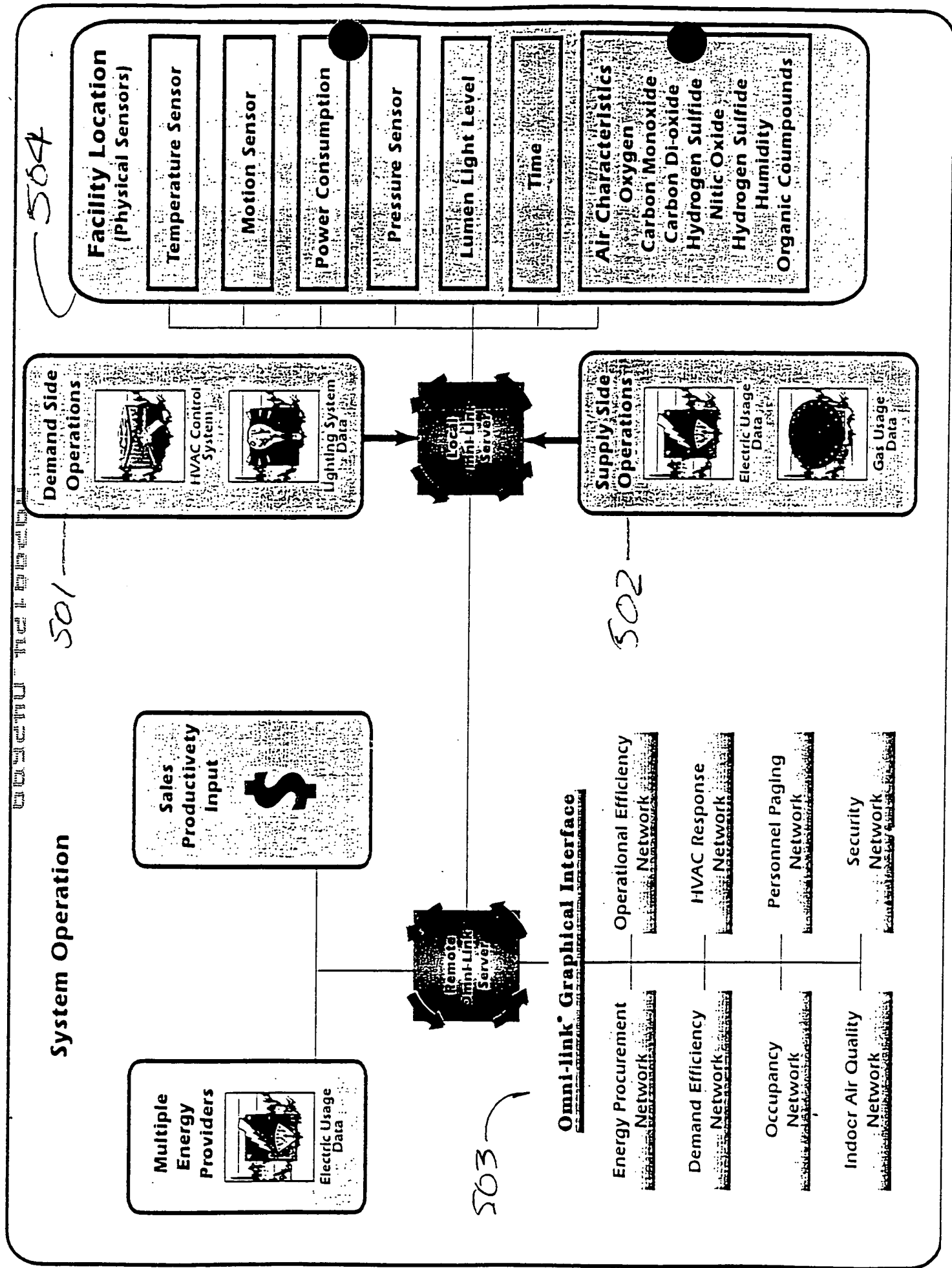
LOCATION
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BUILDING
FOR
CAMPUS
UNIVERSITY
&
HOSPITAL
LOCATIONS

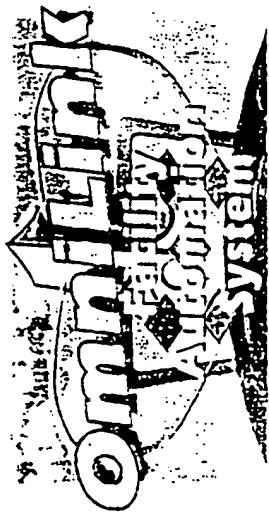
~40/

Figure 20

PWR-118A

FIGURE 22





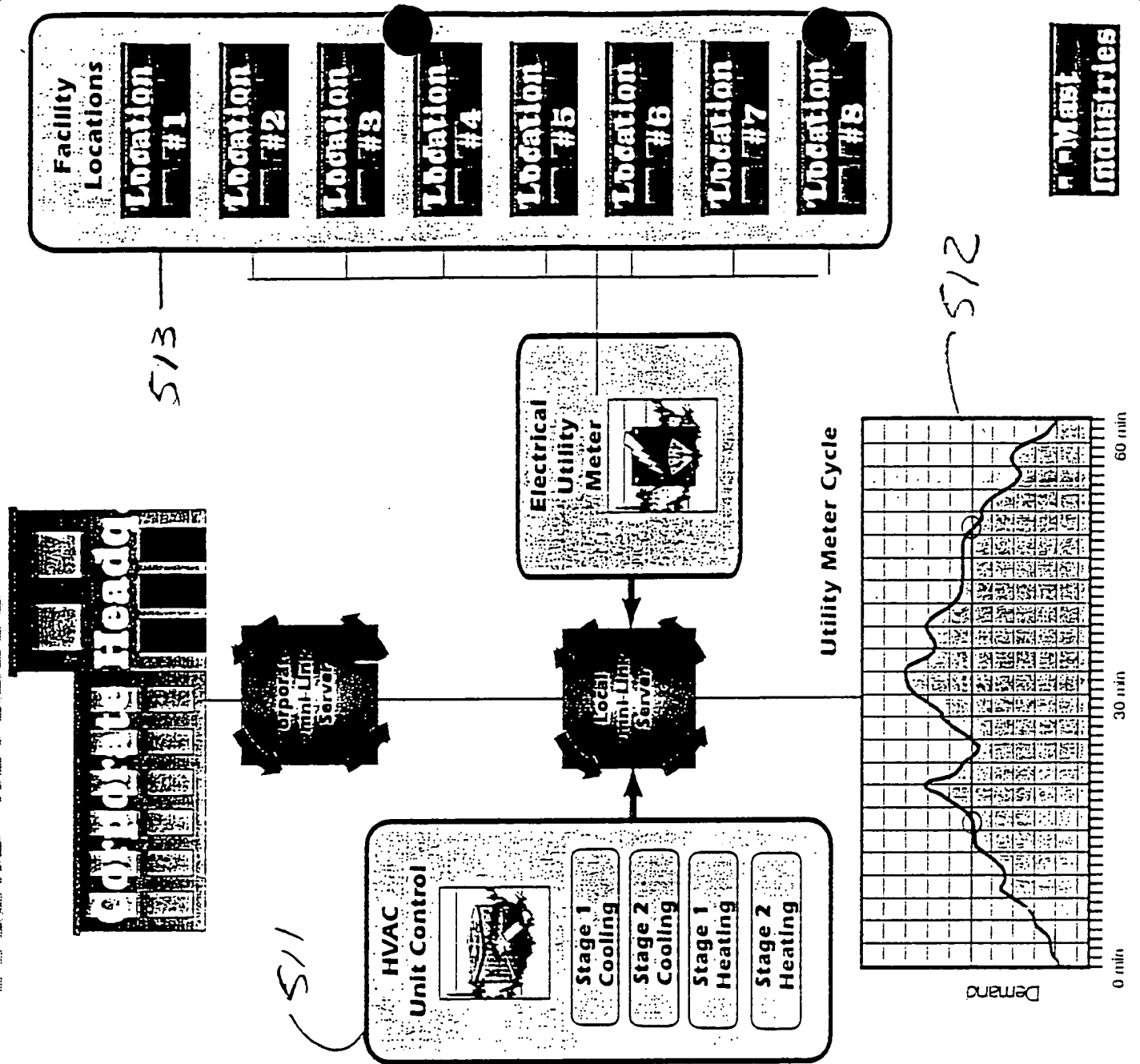
Demand Efficiency Network

Net Benefits:

- Centralized demand control
- Localized demand control
- Utility procurement demand control
- Corporate demand profiling
- Pinpoint problem areas

Net Savings:

- Conservatively a 3 - 10% reduction in electrical demand





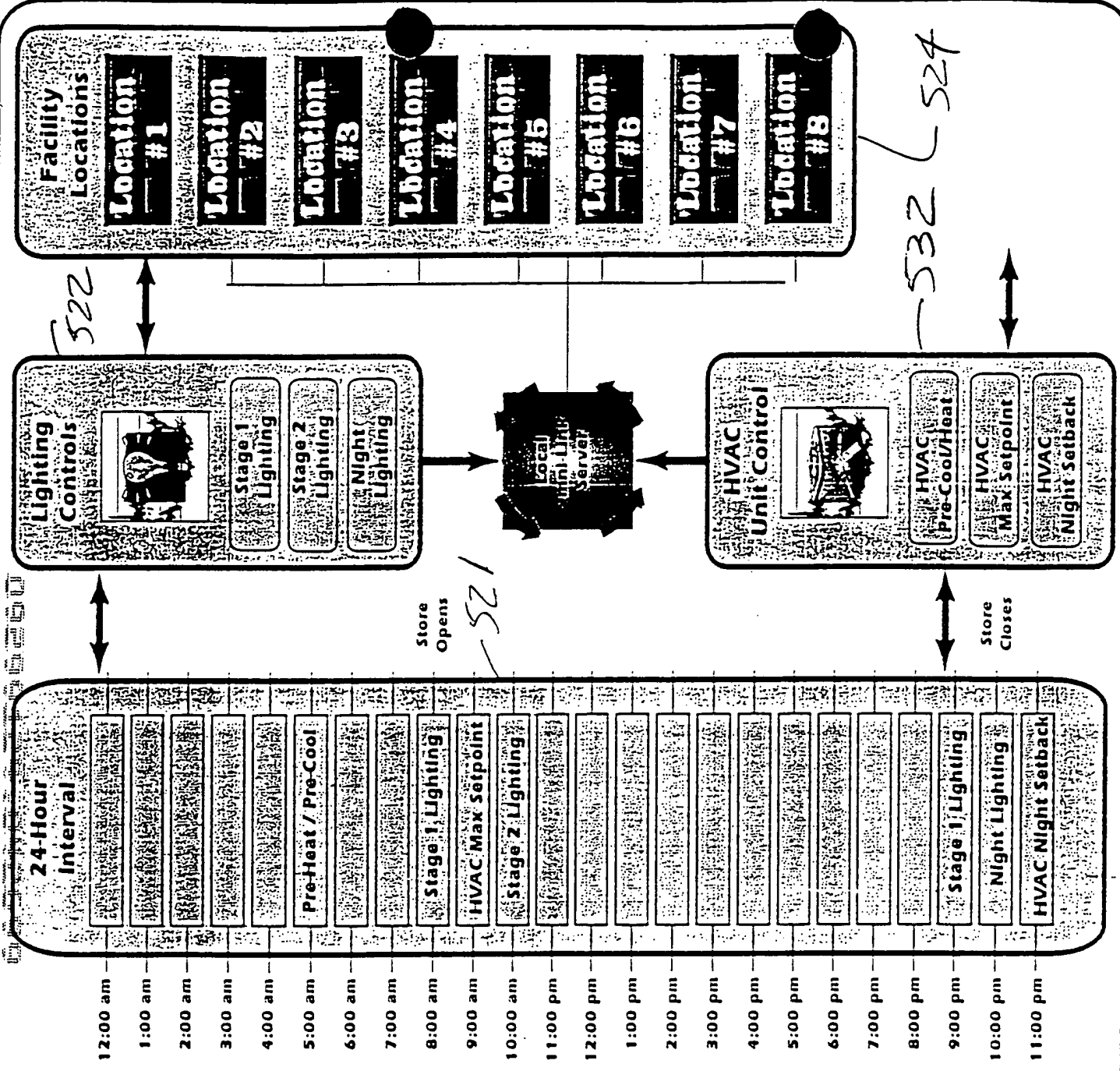
Operational Efficiency Network

Net Benefits:

- Nationwide Simultaneous Operational Control
- Efficient Operations of HVAC & Lighting
- Timeclock efficiency without Human Intervention
- Automatic Space Pre-Heat / Pre-Cool
- Automatic Multi-Stage Lighting

Net Savings:

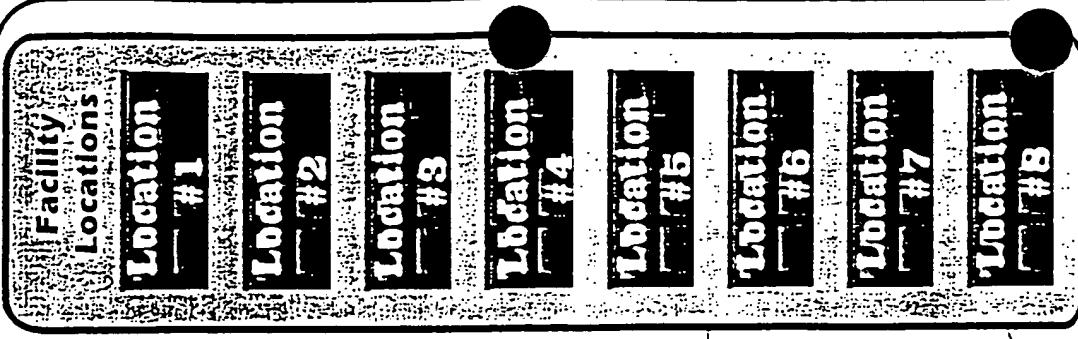
- Conservatively 5 - 15% Reduction in Energy Consumption



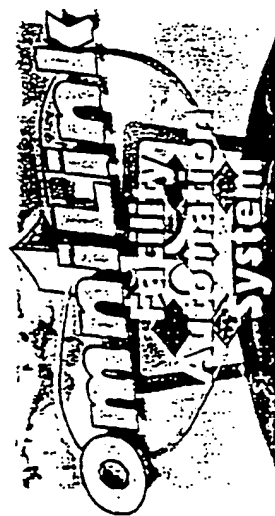


333

- Independent PP's**
- Power Marketers**
- Power Brokers**



153



Occupancy Network

Personnel Paging Network

Net Benefits:

- Instant store occupancy information
- Instant mall occupancy information
- Instant traffic direction
- Staff requirements / statistical analysis

Net Savings:

- Labor operational control
- Statistical sales analysis
- Coordination link with demand module

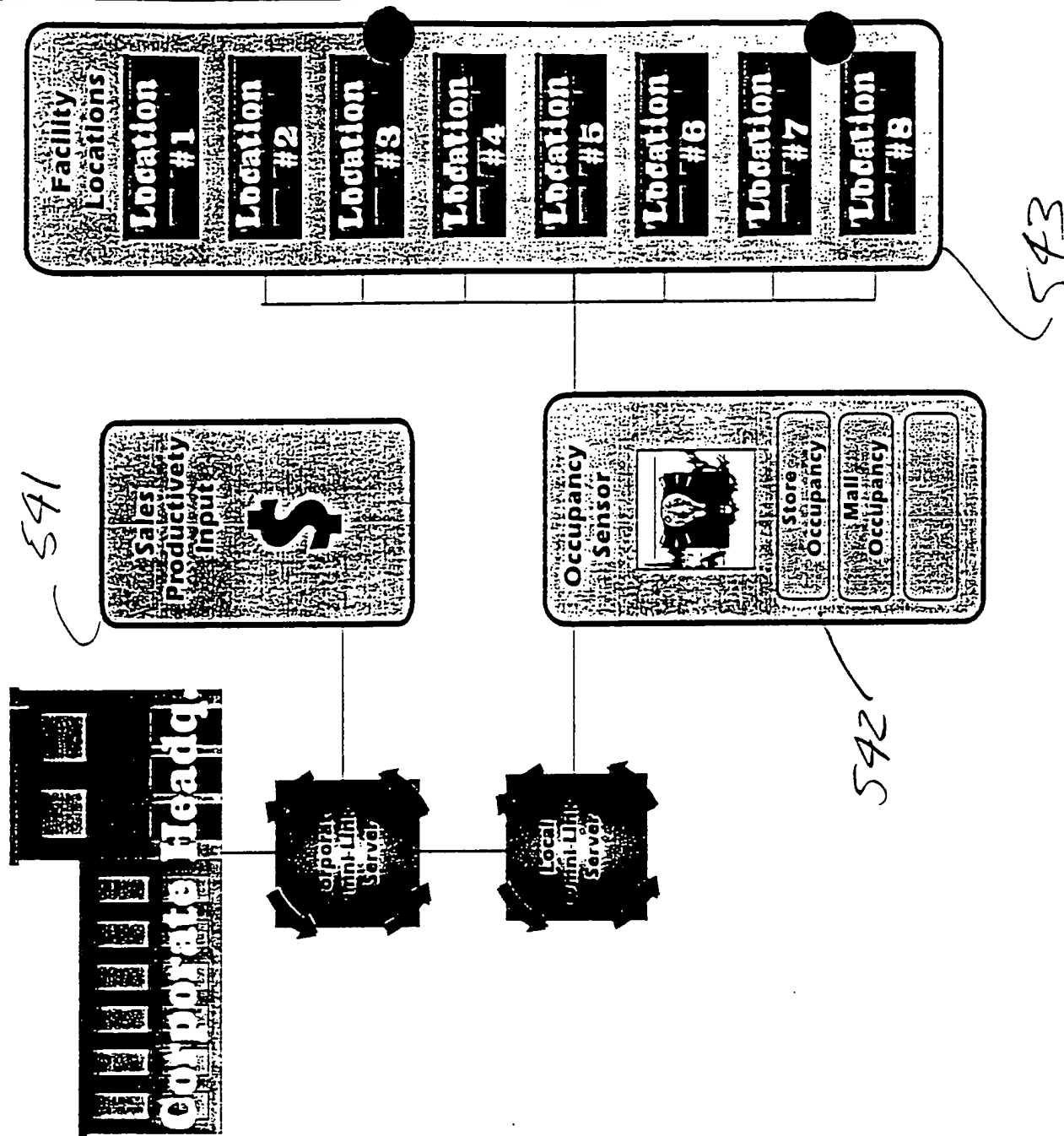
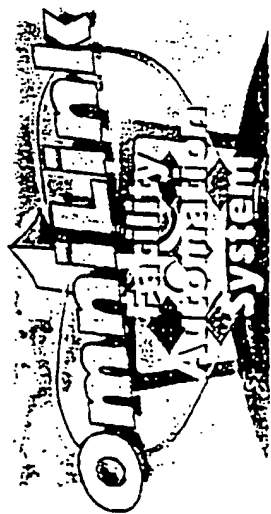


FIGURE 27

Corporate Headquarters



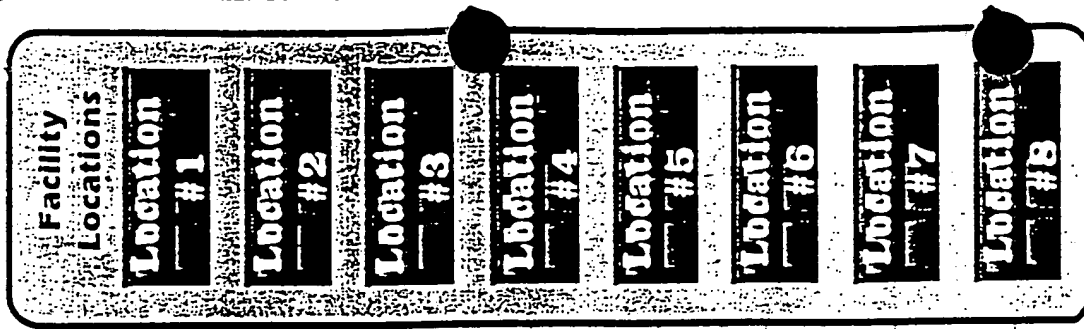
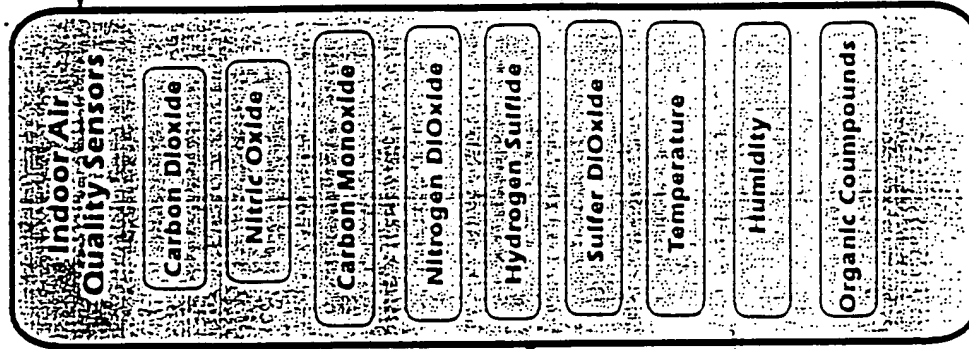
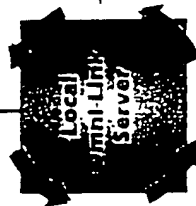
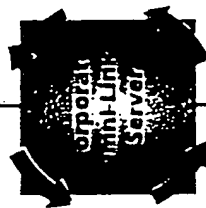
Indoor Air Quality Network

Net Benefits:

- Instant health information for employees

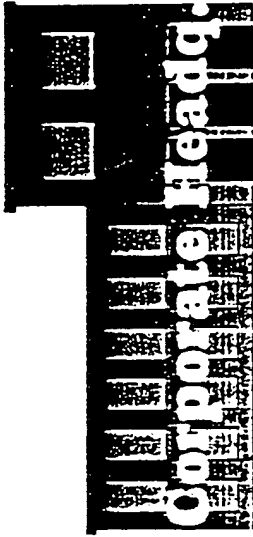
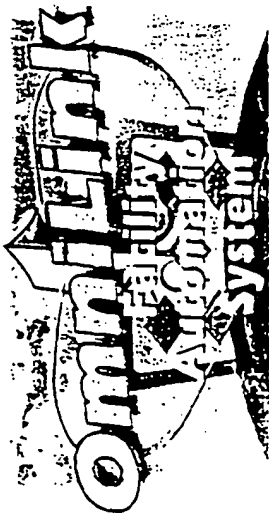
Net Savings:

- Less Sick Employees
- Less claims for poor air



SS1

SS2



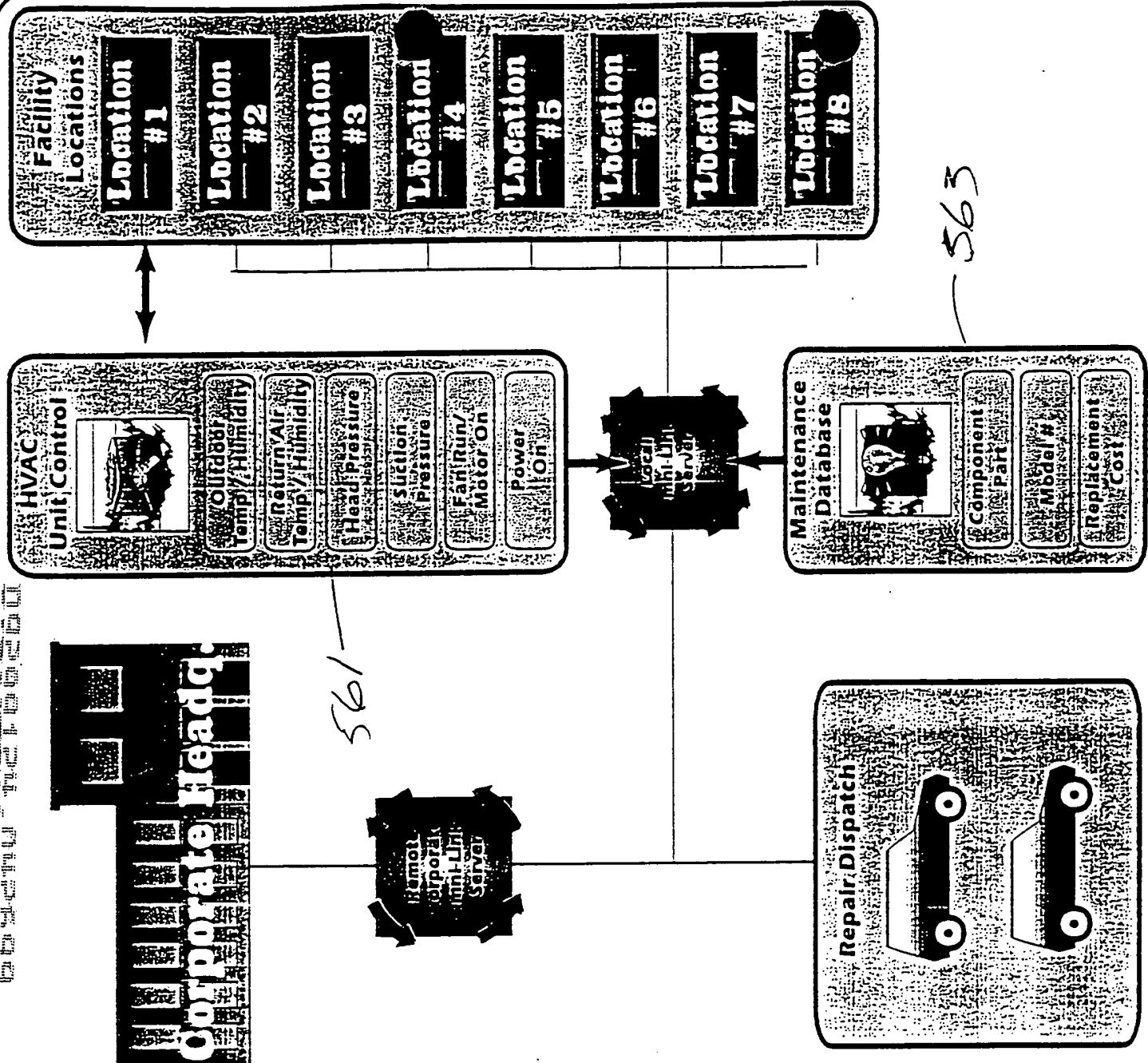
HVAC Response Network

Net Benefits:

- Centralized processing for all HVAC service
- Low-priced proactive repair rather than costly reactive service (40%)
- Cost-effective dispatch identifying component malfunction
- Alleviation of false dispatches (30%)
- Track repair cost, repair time, contractor performance, repeated billings
- Embedded program / contractor training

Net Savings:

- Approximately 80% reduction in false dispatch calls
- Approximately 80% reduction in overtime weekend repairs
- Conservatively a 5 - 15% reduction in



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